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APPLICATION NO.	FIL	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/809,053	0	3/25/2004	Junichiro Ichikawa	1715606	6985	
24240	7590	05/04/2005		EXAMINER		
CHAPMAN			HANIG, RICHARD E			
CHICAGO,				ART UNIT	PAPER NUMBER	
				2873		
				DATE MAILED: 05/04/2009	DATE MAILED: 05/04/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/809,053	ICHIKAWA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Richard Hanig	2873					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on <u>08/10/04 &amp; 09/08/04</u> .							
2a) This action is <b>FINAL</b> . 2b) ⊠ This	This action is FINAL. 2b)⊠ This action is non-final.						
, <u> </u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ⊠ Claim(s) 1-8 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) □ Claim(s) is/are allowed.  6) ⊠ Claim(s) 1 and 5 is/are rejected.  7) ⊠ Claim(s) 2-4 and 6-8 is/are objected to.  8) □ Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
<ul> <li>9) ☐ The specification is objected to by the Examiner.</li> <li>10) ☐ The drawing(s) filed on 10 August 2004 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).</li> <li>11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.</li> </ul>							
Priority under 35 U.S.C. § 119							
12) ★ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ★ All b) ★ Some * c) ★ None of:  1. ★ Certified copies of the priority documents have been received.  2. ★ Certified copies of the priority documents have been received in Application No  3. ★ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da						
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ul>		atent Application (PTO-152)					

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## **DETAILED ACTION**

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicant's statement of the prior art in view of Burns et al (6654512). The applicant has described the light controlling element and specifically with respect LiNbO<sub>3</sub>, and that there is DC drift that is due to long term diffusion problems. Burns et al disclose in col. 5, lines 14-47 a similar system which uses a buffer layer to have long term temporal signal stability of the system, and this is equivalent to applicant's claimed anti-DC drift layer, and one would be motivated to use Burns et al layer because it gives long term temporal stability to the signal in the system. The thickness of the layer is also address and is in the range covered by Burns et al.
- 3. Claims 2-4, 6-8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. The following is a statement of reasons for the indication of allowable subject matter:

  The claimed invention of forming the anti-drift layer by doping anti-drift material from the base plate is not shown or suggested by the prior art.
- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The reference RE37809 in col. 20, lines 51-54 discusses the drift problem and

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suggests in-diffusion of MgO. References 6198855 and 2003/0133638 discuss the diffusion and drift problem and the use buffer layers.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Hanig whose telephone number is 571-272-2329. The examiner can normally be reached on M-F: 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Epps can be reached on 571-272-2328. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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